

components as software modules for microprocessors or signal processors in such a way that an update of partial functions as needed or alternatively the complete function via the mobile radio communications network is possible, which thus allows for a permanent method for updating to new methods and protocols.

Claims 17-20 (canceled)

Claim 21 (currently amended): A method for the optimized transmission of multimedia services in a mobile communications network, particularly a mobile radio communications network, comprising the steps of:

- providing a mobile terminal having a functional unit in [[the]] a form of a channel access client (CAC) implemented as a software driver on a user's side and a functional unit in [[the]] a form of an intelligent channel access and management unit (ICAMU) on a core network side for handling a multimedia data stream,

- recognizing, in the functional units and depending on the direction of the multimedia data stream, particular applications within the multimedia data stream by means of suitable parameters in form of indicators, descriptors, protocol variations or data analysis processes,

- the functional units collaborating with each other to allocate and transmit via various alternative air interface transmission channels of the mobile communications network,

- the mobile terminal including said user's side functional unit CAC separating by means of software the recognized applications completely or in part by their specific data structure and generating several data streams,

- transmitting the several data streams individually and in parallel by their specific data structure via available transmission channels of the mobile communications network which are optimized for respective needs of the individual data streams,

- re-assembling the data streams on a receiver side,

- optionally not aggregating completely in the ICAMU some application-specific components of the data streams, and

- further transmitting the non-aggregated components at least in part as a separate data stream within the mobile communications network or alternatively via various network accesses to other telecommunication or data networks to other receivers or the same receiver.